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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT: NTS EVENT "KASSERI", 28 OCTOBER 1975

K. J. Hill, et al

Teledyne Geotech

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10 December 1975

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SPECIAL DATA COLLECTION SYSTEM EVENT REPORT NTS Event "KASSERI", 28 October 1975

K.J. Hill, M.S. Dawkins, and R.R. Baumstark
Alaxandria Laboratories
Taladyne Geotach, 314 Montgomary Straat, Alaxandria, Virginia 22314

Decamber 1975

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SDCS Event Report No. 41

NTS Event "KASSERI", 28 October 1975

This event report contains seismic data from the Special Data Collection System (SDCS), and other sources for the above event. Published epicenter information from seismic observations is:

	"P" Arrival	Origin Time	Latitude	Longitude	m _b	Mg
NORSAR	14:41:32.0	14:30:06	38.2N	115.6W	5.9	N/A
Using SDCS become	stations, LAS	A and NORSAR,	the epicent	er location	and ma	agnitudes
DECOME		14:30:01.7	37.3N	116.4W	6.2	5.9

All SDCS stations were operational during this period.

Short-period signals associated with this event were recorded at all SDCS stations, LASA and NORSAR.

Long-period signals were recorded at all SDCS stations and LASA. ALPA and NORSAR long-period array data were not included due to program recovery problems.

Scaling factors on plots are millimicrons at 1 Hz (not corrected for instrument response) with the exception of LASA and NORSAR short-period plots. LASA SP scaling factors are millimicrons per inch. Scaling factors are not reported for NORSAR short-period.

STATION DESCRIPTION

SITE	LOCATION	SITE COORDINATES DEG MN SECS	Ø.¥	RDINA	VTES	ELEVATION METERS	INSTRUMENTATION SHORT-PERIOD LONG-	NTATION LONG-PERIOD
ALPA	Alaska	65	14	36.0	ZZ	626	None	31300
CPSO	McMinnville, Tennessee	35	35	41.4	ZZ	574	6480 V 7515 H	SL210 V SL220 H
FN-WV	Franklin, West Virginia	38	32	58.0	Z 3	910	KS36000	KS36000
LASA	Billings, Montana	46 100	41	19.0	ZZ	744	HS10	7505A V 8700C H
HN-ME	Houlton, Maine	46	09 59	43.0	ZZ	213	18300	SL210 V SL220 H
NORSAR	Kjeller, Norway	010	49	25.4	ZШ	379	HS10	7505A V 8700C H
RK-ON	Red Lake, Ontario	50 093	50	20.0	ZZ	366	18300	SL210 V SL220 H
WH2YK	White Horse, Yukon	60	58	41.0	7. 2	80	18300	SL210 V SL220 H

The orientation of the radial instruments at FN-WV is assumed to be 316° ± 5° based on empirical data (event recordings). Rotation, where performed, is referenced to this azimuth and may be questionable. Note:

HYPOCENTER DETERMINATION

INPUT FOR EVENT 28 OCT 75
14:30:00.0 37.000N 116.000W OKH.

			RES:	IDUALS	DIST.	AZ.
STA.	ARRI	ANI	CAIC	REST	REST	REST
LAC	14 32	53.5	-0.1	0.3	12.0	35.7
RK-ON	14 34	46.2	0.0	-0.5	21.1	42.9
CPO	14 35	24.6	-0.1	0.5	24.8	84.6
WH2YK	14 35	37.5	0.2	0.6	26.2	339.2
FN-NY	14 36	02.3	-0.0	0.1	29.0	76.2
HN-HE	14 37	09.3	0.4	-0.0	36.7	60.5
NAC	14 41	32.0	-0.4	-1.0	73.1	24. 1

67 HERRIN TRAVEL TIME TABLES

ORIGIN	LAT.	ECNG.	DEPIH (KH)	SDV	IT	STA
14:30:10.6						
14:30:01.7	37-328N	116.371W	O. REST	0.5	3	7

		CA	LC					RI	ST		
		1 .	1					1 .	. 1		
	0	•		0			0			C	
0		0.	3		2	0		0.	. 3		2
•	•		•	•	•	•	•		•	•	
0		0.	0		0	0		0.	. 0		0
	0			0			0			0	
		0 .	0					0 .	. 0		

CHI2 COVERAGE ELLIPSE; 95 PER CENT CCNF..LEVEL, SDV= 1.49
HAJOF 61.7KH. HINOR 37.9KH. AZ= 30 AREA= 7337 SQ.KH. PEST

DATA SUMMARY

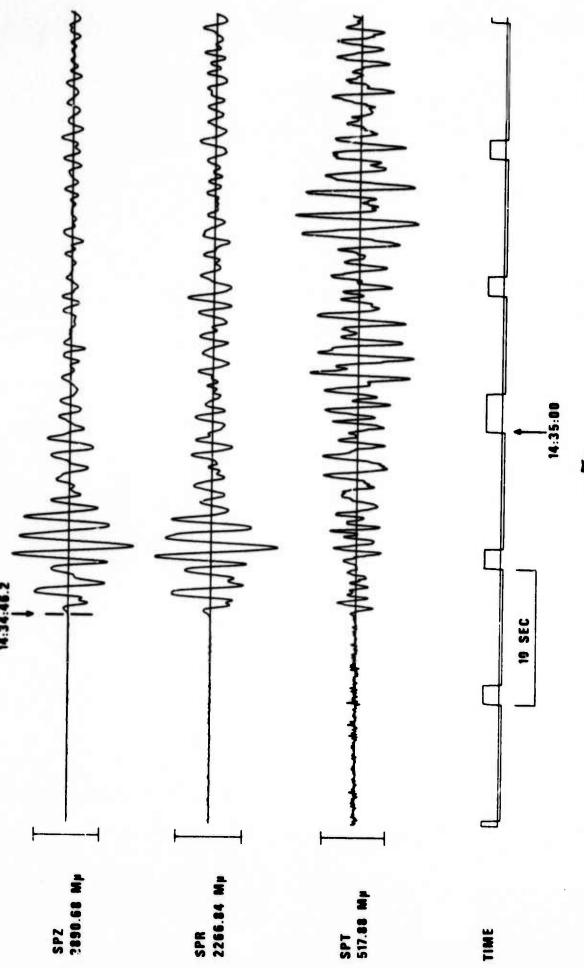
INPUT FOR EVENT 28 OCT 75
14:30:00.0 37.000N 116.000W 0KM.

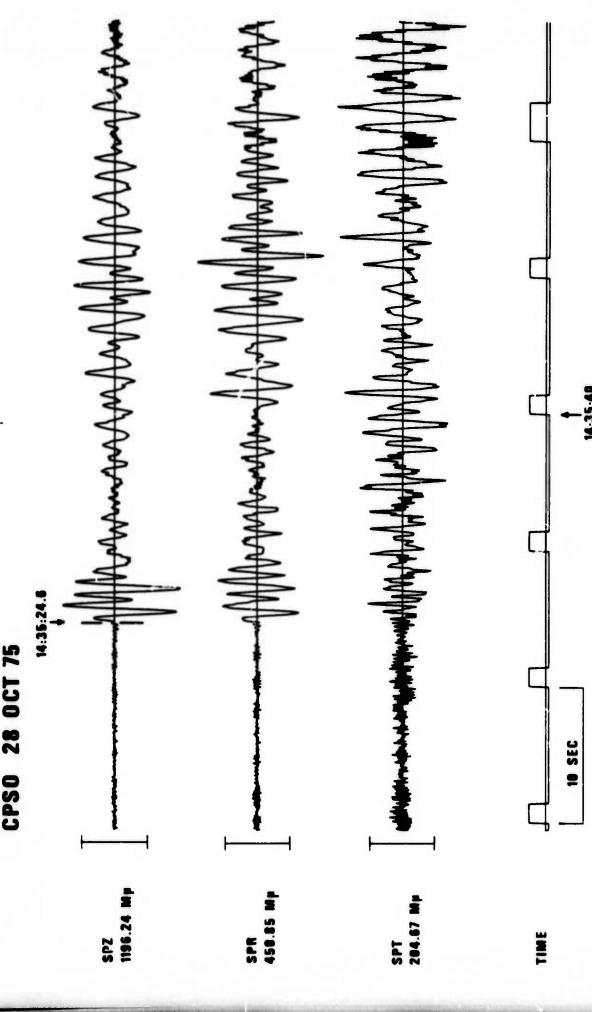
		A.	RRI	000				MAC	SNITUDE		
SIA	PHASI_		TI	<u> </u>	INST	PER	1/1.	NB	MS_	DIE DIST	
LAC H	2 P	14	32	53.5	ACZ	1.1	1874.	7.0	,	12.0	
IAC	LR	14	37	49.0	LPZ	12.0	7999.		6.10	12.0	
RK-ON	IP	14	34	46.2	SPZ	1.3	8756.	6. 75		21.1	
RK-CN	LQ	14	43	48.0	LPT	13.0	1089.				
RK-CN	LR	14	44	37.0	LPZ	13.0	3261.		5.96	21.1	
CFC	EP	14	35	24.€	SPZ	1.0	2025.	6. 40		24.8	
CPC	IQ	14	43	42.0	LPT	18.0	2689.				
CFC	LR	14	45	26.0	LPZ	13.0	6884.		6.35	24.8	
H2YK	EP	14	35	37.5	SPZ	1.1	657.	5. 94		26.2	
H2YK	LQ	14	44	47.0	LPT	21.0	1540.				
H2YK	LR	14	46	54.0	LPZ	17.0	2393.		5.92	26.2	
- N - W V	EP	14	36	02.3	SPZ	0.9	143.	5.46		29.0	
FN-WV	IQ	14	44	46.0	LPT	16.0	3503-				
FN-NA	IR	14	46	45.0	LPZ	16.0	2940.		6.05	29.0	
IN-KH	PP	14	37	09.3	SPZ	1.0	1679.	6.48		36.7	
HN-ME	LQ	14	49	57.0	LPT	19.0	2156.				
HN-ME	LR	14	52	56.0	LPZ	15.0	613.		5.47	36.7	
NAC	EP	14	41	32.0	AP	0.9	218.	5.93		73.1	
ORI	GIN	L	AT.	1	CNG.	DEPT	H (KH)	MAG	SDV STA	IPHAG LPSDV	TPS
	30:10.6									5 01+++++	

ORIGIN LAT. ICNG. DEPTH (KH) MAG SDV STA IPMAG IPSDV IPSTA 14:30:10.6 37.601N 116.166N 55. CAIC 6.10 0.53 6 5.91****** 1 14:30:01.7 37.328N 116.371W C. RESI 6.16 0.48 6 5.92****** 1 IAC NOT USED IN CAIC RUN SP AVG. MAG. IAC NOT USED IN REST RUN SP AVG. MAG.

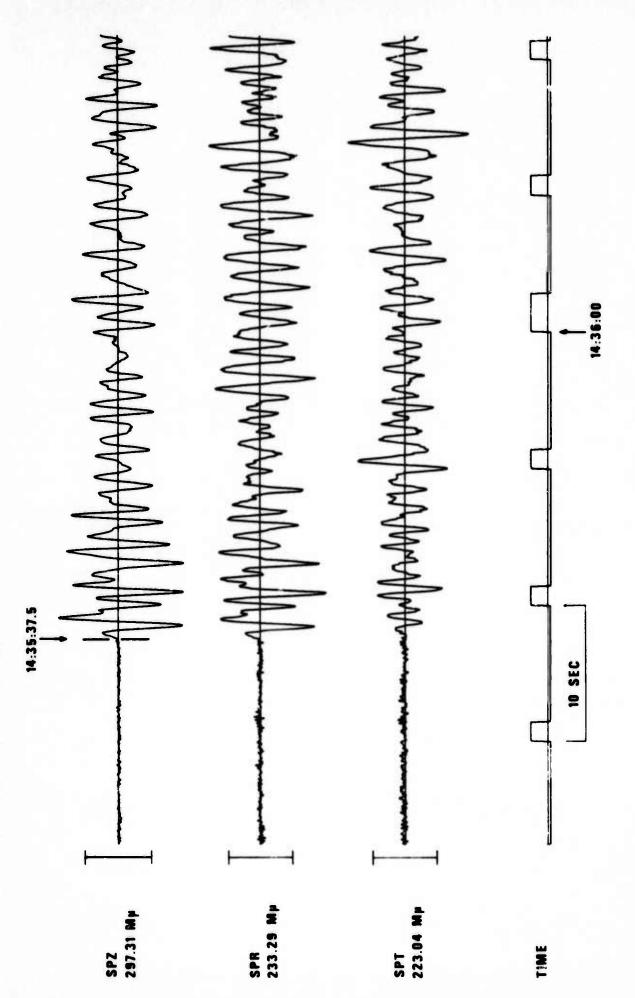
Short-period magnitudes (mb) used in averaging are restricted to those recorded at distances between 20 and 110 degrees from the epicenter.

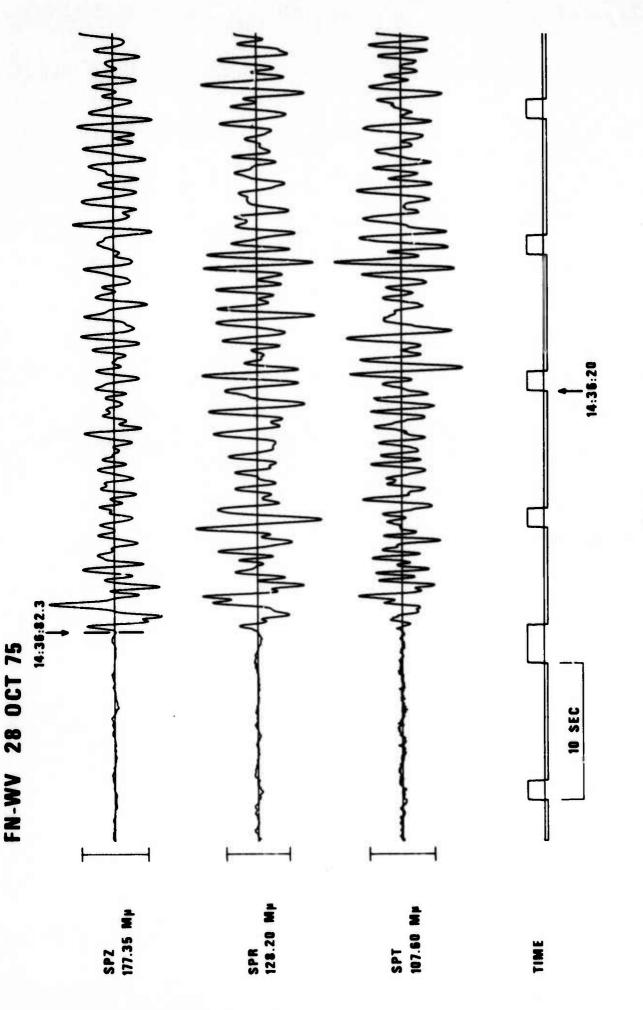
Average long-period magnitude ($M_{\rm S}$) is based on Rayleigh wave observations in the period range of 17 to 23 seconds per cycle.

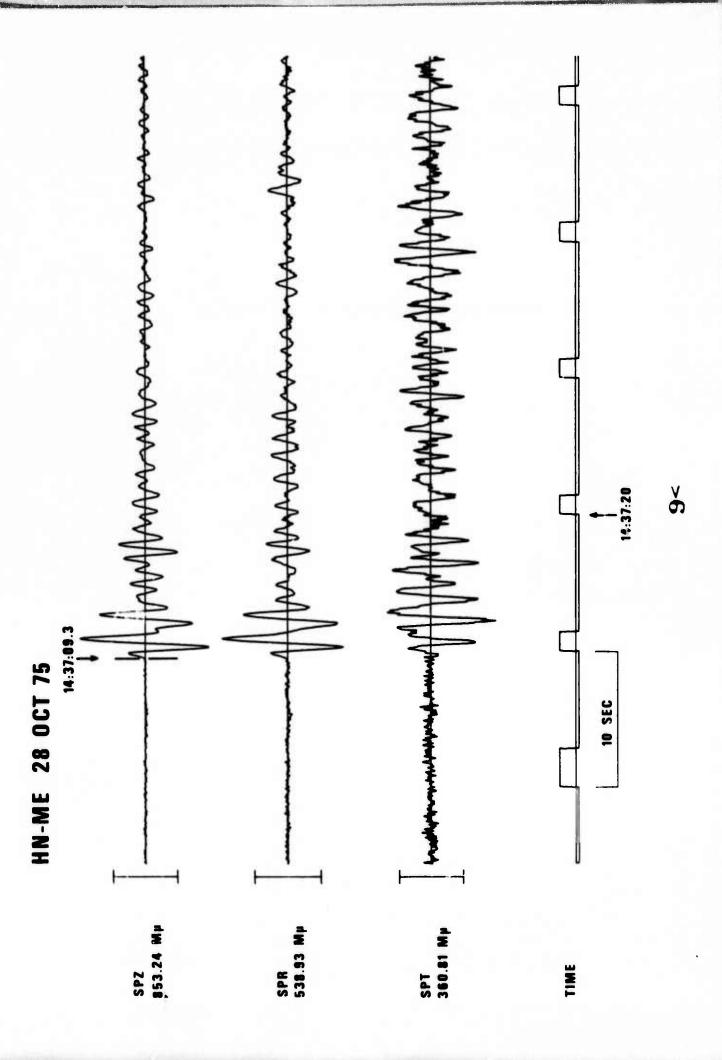




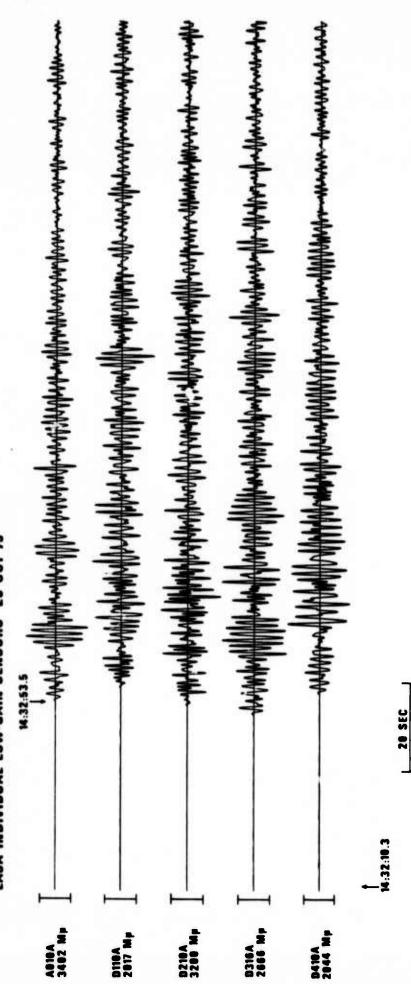
WH2YK 28 OCT 75







LASA INDIVIDUAL LOW-GAIN SENSORS 28 OCT 75



NORSAR EVENT FILE 28 OCT 75

EPX NO. 53570 ARR. 14.41.31.9 38.2N 115.6H 5.8MB 33KM DIST = 72.1 AZI = 318.2 AMP = 91.6 PER = 0.9

